

# Desk Top Power Supplies



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## PSE65 Series

### 38-80 Watts Switch Mode

### Universal AC Input

The PSE65 series of AC/DC switching power supplies offer up to 80 Watts of continuous output power from a universal AC input.

All models meet CISPR class 'B' and FCC class 'B' emission limits and carry full UL, cUL & TUV(EN60950) safety approvals.



#### Features

- Single, dual & triple output versions
- Optional output connectors
- 100% burn in
- Wide input voltage range of 90-264VAC
- Input Surge Current Protection
- Overvoltage Protection
- Overcurrent Protection
- Optional mains ON/OFF Switch

**DOE Level VI versions now available for most models.**

#### Specification

|                          |                                                                  |
|--------------------------|------------------------------------------------------------------|
| Input Voltage:           | 90-264 VAC                                                       |
| Input Frequency:         | 47-63 Hz                                                         |
| Input Current:           | 1.9A 115VAC, 1.5A 230VAC                                         |
| Earth Leakage Current:   | 0.5mA typical, 0.75mA max                                        |
| Output Voltage:          | See table                                                        |
| Output Current:          | See table                                                        |
| Output Power:            | See table                                                        |
| Ripple & Noise:          | 0.5% typical, 1% max pk-pk                                       |
| Line Regulation:         | 0.5% typical, 1% max                                             |
| Load Regulation:         | 3% typical, 5% max                                               |
| Over Voltage Protection: | 112-132% nominal current                                         |
| Over Current Protection: | 110-150% nominal current                                         |
| Efficiency:              | 75-88% depending on model                                        |
| Temperature Coefficient: | All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum                |
| Transient Response:      | 4mS 50-100% load change                                          |
| Hold Up Time:            | 16mS min @ 100VAC input & full load                              |
| Operating Temperature:   | 0° to +70° C, derate linearly from 100% at 40° C to 50% at 70° C |
| Storage Temperature:     | -40° to +85° C                                                   |
| Relative Humidity:       | 5 to 95%                                                         |
| Safety Approvals:        | UL, cUL, TUV(EN60950), CB & CE                                   |
| EMC:                     | Conform to EN55022'B', FCC Part 15'B' and CISPR 22 class 'B'     |
| Options:                 | Optional Mains ON/OFF switch available                           |

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Output Voltage/Current Rating Chart - PSE65 Series

| Model    | Output Voltage | Output Current | Total Regulation | Max Output Power |
|----------|----------------|----------------|------------------|------------------|
| PSE65-05 | 5VDC           | 13A            | 7%               | 65W              |
| PSE65-09 | 9VDC           | 8.33A          | 5%               | 75W              |
| PSE65-12 | 12VDC          | 6.67A          | 5%               | 80W              |
| PSE65-15 | 15VDC          | 5.33A          | 5%               | 80W              |
| PSE65-16 | 16VDC          | 5A             | 5%               | 80W              |
| PSE65-18 | 18VDC          | 4.44A          | 5%               | 80W              |
| PSE65-19 | 19VDC          | 4.21A          | 5%               | 80W              |
| PSE65-24 | 24VDC          | 3.33A          | 5%               | 80W              |
| PSE65-48 | 48VDC          | 1.67A          | 5%               | 80W              |

Standard models fitted with 1.8 metre lead terminated with 2.5x5.5x11 female barrel connector, wired centre positive.

**Options:** Alternative output connectors available, consult sales office with your requirements.

Any voltage available within the range of 3V to 48V DC. AC on/off switch.

Some options subject to minimum order quantities.

| Model         | Output 1 |      |      |            | Output 2 |      |        |            | Output 3 |      |        |            | Output 4 |      |       |            | Max Output Power |
|---------------|----------|------|------|------------|----------|------|--------|------------|----------|------|--------|------------|----------|------|-------|------------|------------------|
|               | Vnom     | Imin | Imax | Total Reg. | Vnom     | Imin | Imax   | Total Reg. | Vnom     | Imin | Imax   | Total Reg. | Vnom     | Imin | Imax  | Total Reg. |                  |
| PSE65-3312    | +3.3V    | 0.5A | 7A   | 5%         | +12V     | 0.1A | 2.75A  | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 56W              |
| PSE65-512     | +5V      | 0.5A | 7A   | 5%         | +12V     | 0.3A | 3A     | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 60W              |
| PSE65-515     | +5V      | 0.5A | 7A   | 5%         | +15V     | 0.1A | 3A     | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 60W              |
| PSE65-524     | +5V      | 0.5A | 7A   | 5%         | +24V     | 0.2A | 2A     | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 60W              |
| PSE65-335     | +3.3V    | 1.0A | 7A   | 5%         | +5V      | 0.1A | 3A     | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 38W              |
| PSE65-524N    | +5V      | 0.5A | 7A   | 5%         | -24V     | 0.2A | 2A     | 5%         | -        | -    | -      | -          | -        | -    | -     | -          | 60W              |
| PSE65-331212  | +3.3V    | 0.3A | 7A   | 5%         | +12V     | 0.1A | 3A     | 5%         | -12V     | 0A   | 0.8A   | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-5125    | +5V      | 0.5A | 7A   | 5%         | +12V     | 0.1A | 2.75A  | 5%         | -5V      | 0A   | 0.325A | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-51212   | +5V      | 0.5A | 6A   | 5%         | +12V     | 0.1A | 2.125A | 5%         | -12V     | 0A   | 0.325A | 5%         | -        | -    | -     | -          | 60W              |
| PSE65-51515   | +5V      | 0.5A | 6A   | 5%         | +15V     | 0.1A | 2.125A | 6%         | -15V     | 0A   | 0.208A | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-52424   | +5V      | 0.5A | 7A   | 5%         | +24V     | 0.1A | 2A     | 5%         | -24V     | 0A   | 0.5A   | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-52412   | +5V      | 0.5A | 6A   | 5%         | +24V     | 0.1A | 1.25A  | 5%         | -12V     | 0A   | 0.416A | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-33125   | +3.3V    | 0.5A | 7A   | 5%         | +12V     | 0.1A | 3A     | 5%         | -5V      | 0A   | 0.8A   | 5%         | -        | -    | -     | -          | 65W              |
| PSE65-5241212 | +5V      | 0.0A | 3.5A | 5%         | +24V     | 0.1A | 1.5A   | 5%         | +12V     | 0A   | 0.25A  | 5%         | +12      | 0A   | 0.15A | 5%         | 65W              |

Standard models fitted with 1.2 metre lead terminated in 180°5 pin din plug.

**Options:** Alternative output connectors available, consult sales office with your requirements.

AC on/off switch.

Some options subject to minimum order quantities.

